Date: 06/01/1999

To: MSDS Requester

From: 3E Company

Subject: The MSDS you have requested

The MSDS attached is the best copy available from the manufacturer.

For your convenience, we have provided you with the phone number of the manufacturer (if available). Please contact the manufacturer if you have any further questions about this product.

Manufacturer: Kevlaur Industries, Inc

ProductName: Frontier Colored Molch

Mfr Contact Name:

Mfr Phone: (207) 868-2791

3E COMPANY *North America's leader in hazardous materials information management.*

Phone (800) 451-8346

MANUFACTURER MEMORANDUM SHEET

Date: 26-May-99

TO: MSDS Requester

FROM: Shirley Cooper - 3E Company

RE: The MSDS you have requested

Manufacturer: KEVLAUR IND.

ProductName: FRONTIER COLORED MOLCH

Item:

Mfg Contact Name: Bob Reed

MfgPhone: (207) 868-2761

Per the manufacturer, the MSDS(s) listed below cover the above product.

DecoScape

AMERIMULCH

MATERIAL SAFETY DATA SHEET

Product: Amerimulch Colorant – Red 1 IOG

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supplier	Amerimulch
Address	5549 Canal Road
City, St, Zip	Cleveland, OH 44125
Phone	888/558-3304

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	PEL-OSHA	TLV-ACG1H
IRON OXIDE (CAS #1309-37-1)	10mg / m³ (AsFe, total particulate)	5mg / m³ (as Fe, FUME)

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	Over 3,000°
Vapor Pressure (mm Hg)	Not applicable
Vapor Density (AIR = 1)	Not applicable
Specific Gravity (H2O = 1)	1 3
Melting Point	Over 1,000°
Evaporation Rate (Butyl Acetate = 1)	Not applicable
Solubility in Water	Insoluble
Appearance and Odor	Miniature beads / odorless

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point	Not applicable
Extinguishing Media	Not applicable
Special fire fighting procedures	None
Unusual fire and explosion hazards	None
LEL	Not applicable
UEL	Not applicable

SECTION 4: REACTIVITY DATA

Stability ..... Stable

Conditions to avoid ..... None

Incompatibility (materials to avoid) ..... None known

Hazardous decomposition or byproducts ..... None known

Hazardous polymerization ..... Will not occur

SECTION 5: HEALTH HAZARD DATA

Route(s) of entry: Inhalation, ingestion, eye and skin contact

Health hazards: Acute and prolonged or repeated contact

Chronic This product has a very low dust content. Prolonged or repeated exposure to iron oxide dust may cause respiratory irritation.

Carcinogenicity

NTP? ..... No

IARC Monographs? ..... No

OSHA Regulated? ..... No

Signs and symptoms of exposure: Prolonged or repeated exposure may cause skin or eye irritation.

Medical conditions generally aggravated by exposure: None known

Emergency and first aid procedures:

Inhalation: Remove to fresh air

Eyes Flush with water

Skin: Wash with soap and water

Ingestion: Call physician immediately

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Place material in appropriately marked containers for disposal. Avoid making excessive dust. Wear appropriate dust protection if dust is created.

Waste disposal method: Dispose of in accordance with federal, state and local requirements

Precautions to be taken in handling and storing: Keep material dry and away from food and beverages.

Other precautions: Wash after handling

SECTION 8: CONTROL MEASURES

Respiratory protection

Work ambient conditions should be monitored and if the recommended exposure limit is exceeded, NIOSH/MSHP approved respirator should be worn.

Local exhaust

Use local ventilation to maintain air levels below the recommended exposure limit if dusting is a problem.

Special ventilation ..... None

Mechanical ventilation ..... None

Protective gloves ..... Rubber or leather

Eye protection ..... Goggles

Other protective clothing / equipment ..... None needed

Work / hygienic practices: Avoid contact. Keep container closed when not in use. Wash after handling Store away from food and beverages.

MATERIAL SAFETY DATA SHEET
Wood Dust (Untreated)

1. PRODUCT and COMPANY IDENTIFICATION

Champion International Corporation
One Champion Plaza
Stamford, CT 06921
General Telephone No.: 203-358-6493 (8 a.m.- 5 p.m. E.S.T.)
Emergency Telephone No., Chemtrek: 203-358-7000 (24 hrs.)

Preparation Date: 06/15/95
Revision Date: 07/12/95

Substance Name:	Wood Dust (Untreated)
Use:	Particles generated by any manual or mechanical cutting or abrasion process performed on wood. May be used as an extender or filler for some commercial products.
Synonyms:	None
Chemical Formula:	Not applicable
Molecular Wt:	Not applicable.

2. COMPOSITION/INFORMATION ON INGREDIENTS

NO.	INGREDIENT NAME	CAS NO.	% WEIGHT
1*	Wood Dust (Untreated)	NONE	100

*Contaminants in wood dust may include chemicals used to treat the wood, plant life, molds, microbes from decomposition, and materials from saws and sanders.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Light or dark colored granular solid. Combustible solid; strong to severe explosion hazard if a dust cloud contacts an ignition source. May cause eye, skin and respiratory tract irritation.

Potential Health Effects

Acute Effects:

Inhalation: May cause nasal dryness and irritation and obstruction of the respiratory tract. Symptoms may include coughing, wheezing, sneezing and sinusitis.

Eye: May cause eye irritation. Symptoms may include tearing, redness, and burning.

Skin: May cause skin irritation. Some species of wood dust may cause allergic contact dermatitis in sensitized individuals.

Ingestion: Not expected to be a significant route of exposure.

Chronic Effects:
Depending on the species, prolonged skin contact may cause dermatitis. Prolonged inhalation may cause respiratory sensitization.

Carcinogenicity:
IARC classifies wood dust as a Group 1 carcinogen (confirmed human carcinogen) based on the increased incidence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

Reproductive/Teratogenic Effects:
None reported.

Medical Conditions Aggravated By Exposure:

Persons with preexisting skin, eye, or lung disease are at increased risk of exposure.

4. FIRST AID MEASURES

Inhalation: Remove subject to fresh air. If persistent irritation, severe coughing or breathing difficulties occur, get medical attention.

Ingestion: Ingestion is not expected to be a route of exposure under normal conditions of use. However, if large amounts are ingested, intestinal obstruction could result. If ingested, give subject 1-2 glasses of water. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention.

Skin: Wash skin with soap and flush thoroughly with plenty of water. Obtain medical attention if irritation develops, or other symptoms occur. Wash clothing before reuse.

Eye: First check the victim for contact lenses and remove if present. Immediately flush eyes with plenty of water or normal saline for at least 15 minutes while holding eyelids open. If symptoms such as redness or irritation develop or persist, get immediate medical attention. Do not put any medication in the victim's eyes unless instructed by a physician.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable. **Method:** ---

Autoignition Temperature: Variable (typically 400-500°F)

Flammable Limits:

Lower Limit: 40 gm/m³
Upper Limit: None Reported

Fire And Explosion Hazards:

Combustible solid. Wood dust is a strong to severe explosion hazard if a dust cloud contacts an ignition source.

Common Extinguishing Methods:

Use carbon dioxide, waterspray or sand when fighting fires involving this material.

Fire Fighting Procedures:

Keep unnecessary people away; isolate hazard area and deny entry. Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Emergency equipment including self-contained breathing apparatus (SCBA) and full fire fighting turnout gear should be worn by fire fighters.

6. ACCIDENTAL RELEASE MEASURES

Follow facility-specific procedures for spill response. Isolate the spill area. Eliminate all heat and ignition sources. Avoid dust generation since it can result in an explosion hazard. When cleaning spills, wear appropriate personal protective equipment including safety goggles and chemical resistant gloves (see Section 8).

For small spills, collect by carefully scooping or shoveling into a pan or paper towel, or by moistening with water and wiping. For large spills, vacuum or wet mop. Avoid spreading the compound as much as possible. Avoid dust generation.

Place recovered wood dust in a proper container and dispose of in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Avoid dust generation and breathing wood dust.

Storage:

Keep away from open flames and other sources of ignition. Hot, humid storage conditions can result in spontaneous ignition. Storage of partially burned or scorched wood dust can be hazardous because of its explosivity.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Ingredient Name	OSHA Permissible Exposure Limit	ACGIH Threshold Limit Value
Wood Dust (Untreated)	5 mg/m³ (TWA, respirable fraction)/ 15 mg/m³ (TWA, total dust)	1 mg/m³ (TWA, hardwood species such as beech and oak); 5 mg/m³ (TWA, softwood); 10 mg/m³ (STEL, softwood)

[Note: In AFL-CIO v. OSHA 965 F.2d 962 (11th Cir. 1992), OSHA's 1989 Air Contaminants Rule was overturned, including the specific PELs for wood dust. The 1989 PELs were: 5 mg/m³ (TWA) and 10 mg/m³ (STEL) for all soft and hardwood except Western Red Cedar; 2.5 mg/m (TWA) for Western Red Cedar. A number of states have incorporated provisions of the 1989 Standard into their state plans. Additionally, OSHA has announced that it may cite companies under the OSH Act General Duty Clause under appropriate circumstances for non-compliance with the 1989 PELs.]

Engineering Controls:
Adequate local and/or general exhaust ventilation or other engineering controls to keep airborne concentrations below exposure limits.

Respiratory Protection:
Not normally required. If airborne contaminant levels may exceed recommended exposure limits, NIOSH/MSHA approved respiratory protection appropriate for employee exposure levels is recommended.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.1 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection:

Gloves: Wear gloves to protect skin from mechanical irritation or chapping. Replace gloves at the first signs of deterioration (hardening, cracking, softening or swelling).

Other: Additional protective equipment is not required.

Eye Protection:
Recommend use of safety glasses with side shields or goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Light to dark colored granular solid.

Melting/Freezing Point: Not applicable.

Boiling Point: Not applicable.

Specific Gravity/Density: Variable (dependent on wood species and moisture content).

Vapor Density: Not applicable.

Vapor Pressure: Not applicable.

Solubility:
- Water: Insoluble.
- Other Solvents: Not available.

Evaporation Rate: Not applicable.

Decomposition Temperature: Not available.

pH: Not available.

Other: None.

10. STABILITY AND REACTIVITY

Stability:
Product is stable under normal conditions of use. Hazardous polymerization has not been reported to occur under normal temperatures and pressures. Product will not react with water.

Hazardous Decomposition Products:
Hazardous decomposition products include toxic fumes of carbon monoxide, aldehydes, and organic acids.

Conditions To Avoid:
Avoid heat, sources of ingition, and dusty conditions. Product may ignite at temperatures in excess of 400°F.

Materials And Substances To Avoid (Incompatibility):
Incompatible with oxidizing agents and drying oils.

11. TOXICOLOGY INFORMATION

In epidemiological studies, exposure to wood dust has been associated with an increased incidence of adenocarcinomas of the nasal cavities and paranasal sinuses. No other relevent toxicological data were found. Refer to section 3.2 for health effects information.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:
No data available.

Chemical Fate Information:
No data available.

13. DISPOSAL CONSIDERATIONS

Consider reclamation, recycling or destruction rather than disposal in a landfill. Dispose of in accordance with all applicable Federal, state, and local regulations.

CERCLA Reportable Quantity: This material is not listed as a CERCLA Hazardous Substance under 40 CFR 302.4.

RCRA Status: This product is not listed as a RCRA Hazardous Waste under 40 CFR 261.21.

14. TRANSPORTATION INFORMATION

U.S. Department Of Transportation (DOT):
Wood dust is not regulated by DOT.

15. REGULATORY INFORMATION

Federal Regulations:

TSCA Inventory Status: Wood dust is not listed on the EPA TSCA Chemical Inventory.

SARA Title III Section 302 Extremely Hazardous Substances: This product is not listed as an Extremely Hazardous Chemical under 40 CFR 355.

SARA Section 311/312 Hazard Category: This product is an immediate health hazard under 40 CFR 370.2 (irritant).

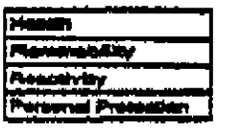
SARA Section 313 Toxic Chemicals Listing: This product is not listed as a Toxic Chemical under 40 CFR 372.65.

State Regulations:
Wood dust (certain hardwoods as beech and oak) softwoods are listed on the Pennsylvania Hazardous Substance List.

16. OTHER INFORMATION

Hazard Ratings*

NFPA:
Health- 1
Flammability- 1
Reactivity- 1
Special Hazards- None



HMIS:
Health- 1
Flammability- 1
Reactivity- 1
Personal Protection- See Section 8

*A hazard rating has not been developed by NFPA for this product. The hazard ratings included in this MSDS have been developed based on NFPA and HMIS criteria as well as professional judgement. This information is intended solely for the use of individuals trained in these hazard rating systems.

Preparation And Revision Information

None

The information set forth herein is offered as a service to our customers and is not intended to relieve a customer from its responsibility to determine the suitability of this information for their particular purposes, to comply with all laws and procedures regarding the safe use of these materials, and to use these materials in a safe manner.

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